LOUISIANA NATURAL AND SCENIC RIVERS SYSTEM

PERMIT APPLICATION

Permit # 897 (Assigned by Department)

The Louisiana Department of Wildlife and Fisheries' Scenic Rivers program is authorized by LRS title 56, Chapter 9 Part II. This law requires permits authorizing activities in or affecting rivers that have been designated by the Louisiana Legislature as Natural and Scenic. Information provided on this form will be used in evaluating the application for a permit. Information in this application is made a matter of public record through issuance of a public notice. Disclosure of the information requested is voluntary, however, the data requested are necessary in order to communicate with the applicant and to evaluate the permit application. If necessary information is not provided, the permit application cannot be processed nor can a permit be issued.

APPLICANT INFORMATION

Name of Applicant	Angelina Land, LLC	Name of Agent (if any)
Address	P.O Box 158	Address
Address	8318 Hwy 565	Address
City, State, Zip	Monterey, LA 71354	City, State, Zip
Phone	318-386-7247	Phone

DESCRIPTION OF THE PROPOSED ACTIVITY

Brief summary of the description and purpose of the proposed activity (details to be attached as a separate document)

To utilize surface water for the purpose of irrigating agricultural crops.

Is any portion of the activity complete? YES NO X (If yes indicate month and year of completion)

LOCATION OF PROPOSED ACTIVITY

Stream Name	Bayou Cocodrie	Names, Addresses, Phone Numbers of Adjacent Property Owners
Parish	Concordia	
Section	10	
Township	5N	
Range	8E	
Latitude/Longitude	31 25'22.52'N 91 38'03.17'W	

ENVIRONMENTAL ASSESSMENT

Must be a separate document. See the attached instruction sheet for completing the assessment.

CONFIRMATION OF INFORMATION ACCURACY

Application is hereby made for a Scenic River Use Permit to authorize the activities described herein. I certify that I am familiar with the information contained in this application, and that, to the best of my knowledge and belief, such information is true, complete, and accurate. I further certify that I possess the authority to undertake the proposed activities, or I am acting as the duly authorized agent of the applicant.

Angelina Land, LLC

By: Derek Yurosek, Signature Farm Property Manager 4/12/24

Date

Form # LSR3 May 2002

State of Louisiana

BOBBY JINDAL
GOVERNOR

DEPARTMENT OF WILDLIFE AND FISHERIES

ROBERT J. BARHAM
SECRETARY

Dear Scenic River Permit Applicant:

Please review and concur on the following statement regarding the issuance of permits by the Louisiana Department of Wildlife and Fisheries. This agreement must be signed and returned before a Scenic River Permit can be issued.

"I have been advised and do understand that by applying for and accepting a Scenic Rivers permit issued by the Louisiana Department of Wildlife and Fisheries, I am being allowed to engage in an activity which would otherwise be prohibited by law or for which a permit is required. I understand that the permit is not a license and confers no property right upon me. I specifically agree to abide by all State and Federal fish and wildlife laws and regulations, and all State and Federal laws and regulations which relate to this permit or the permitted activity, and by all other terms and conditions of this permit. I understand that the permit for which I am applying may be suspended, annulled, withdrawn or revoked and that I may be assessed civil penalties, all in accordance with the provision of the Louisiana Administrative Procedure Act, and that I may be denied future permits as a consequence of my failure to fully and completely comply with the terms and conditions of the permit, as well as other laws and regulations pertinent thereto. If served with or notified of a cease and desist order signed by the Scenic Rivers Administrator, I agree to immediately and without delay cease all activities and operations which relate to the permitted activity or which are impacting the Scenic River, until such time as the matter can be resolved in an adjudicatory hearing pursuant to the Louisiana Administrative Procedure Act. I understand and agree that any permit issued to me by the Louisiana Department of Wildlife and Fisheries is in the nature of a privilege which is being voluntarily extended to me by the Department and the failure on my part to cooperate with the Department can result in the loss of the privilege conferred and the denial of future requests for permits. By accepting this permit, I evidence my agreement to be bound by all conditions and stipulations set forth herein."

Angelina Land, LLC

By: Derek Yurosek, Authorized Signature

4/13/2011
Date

REV. 12/7/98

Angelina Land, LLC

Project description:

Proposed irrigation project: Utilize surface water from Bayou Cocodrie to replace 4 irrigation wells in an area where the ground water has high levels of calcium chloride and is no longer suitable for irrigation. The project is designed to irrigate approximately 2,500 acres of agricultural land. The project will require (2) thirty inch (30") pumps to be installed into Bayou Cocodrie. The water will then be pumped through pipe for about 200' into a reservoir and will then be pumped via pipe line to individual fields. All canal banks will be sloped and planted to grass to reduce erosion and to act as a filtration system. To install the pumps we will need to cut an area of underbrush (leaving large trees) about 100' wide to the bayou. The pumps will be two (2) thirty inch (30") WMI Hydraflo water pumps. See attached description of pumps. Manipulation of the bayou bank will be very minimal with this style of pump. If any silt is removed from the bayou, it will be removed from site without risk of re-entry to bayou.

Vicinity map of project: see attached

Color photos: see attached

List of other permits: Currently applied for permit with Army Corps of Engineers

Statement of compliance history: Land leveled approximately 14,000 acres, installed water control structures in all leveled fields to reduce the amount of silt that leaves fields. Maintain buffer strips along Bayou Cocodrie and other streams to reduce erosion and filter runoff and enhance wildlife habitat. Apply all chemicals and fertilizers using best management practices to ensure environmental quality.

Steps taken to minimize impact: Great care and effort was employed during the pump selection process to identify a pump design and installation process that would have minimal impact on the environment. Reservoir will enhance ecosystem providing shallow water habitat for fish and wildlife. The project will have no negative impact on the water quality up or downstream of the proposed project.

Angelina Land, LLC

Attachments and Environmental Assessment:

1. A complete description of the proposed project (including drawings):

Proposed irrigation project: Utilize surface water from Bayou Cocodrie to replace 4 irrigation wells in an area where the ground water has high levels of calcium chloride and is no longer suitable for irrigation. The project is designed to irrigate approximately 2,500 acres of agricultural land. The project will require (2) thirty inch (30") pumps to be installed into Bayou Cocodrie. The water will then be pumped through pipe for about 200' into a reservoir and will then be pumped via pipe line to individual fields. All canal banks will be sloped and planted to grass to reduce erosion and to act as a filtration system. To install the pumps we will need to cut an area of underbrush (leaving large trees) about 100' wide to the bayou. The pumps will be two (2) thirty inch (30") WMI Hydraflo water pumps. See attached description of pumps. Manipulation of the bayou bank will be very minimal with this style of pump. If any silt is removed from the bayou, it will be removed from site without risk of re-entry to bayou.

Irrigation Project Drawing: see attached

2. A map showing the exact location of the project on the river: see attached

3. Color photos: see attached

4. List of all other local, state, and federal permits required for this project: U.S Army Corps of Engineers 33 CFR 325.

5. An environmental assessment which includes separate evaluation of impacts on each of the following:

   A. Existing land – Used for agricultural row crop production since the early 1970's.
   B. Historical/Archeological Sites – No impact expected since the project will not interfere with the natural flow of Cocodrie Bayou, up or down stream.
   C. Economic impact of the project – The project will provide a quality irrigation source for surrounding farmland, resulting in consistent and higher yields; creating new job opportunities and generating more revenue for the local economy.

D. Wilderness/Rural Quality – Project will have only minimal impact on natural wetlands affected by water levels in Bayou Cocodrie. Project could potentially provide additional wetland habitat in that area.
E. Scenic/Aesthetic Value – Little or no impact on scenic/aesthetic value of Bayou Cocodrie. The project will have little effect on the natural wetland of the area upstream or downstream from the proposed project site.
F. Recreational Use/Opportunities – The project will have no impact on the recreational, consumptive or non-consumptive use of Bayou Cocodrie and its tributaries, up of downstream for the proposed project site.
G. Ecological Systems Present – The proposed project will create minimal impact on the ecological systems present; again, the ecological systems could be benefited by the addition of aquatic habitat provided by this project.
H. Fish and Wildlife in the Area – There will be no adverse impact on the fish and wildlife in the area; there may be some added benefits due to the addition of impounded water
I. Botanical Elements (Vegetation) – The project will provide additional vegetation available for indigenous species. The project management plan includes a nuisance aquatic control program and vegetative buffer to control runoff.
J. Geological Features – There is no associated geological impact associated with this project.
K. Hydrological Features – No negative impact on the natural flow or flooding regime of Bayou Cocodrie. This project will not impound water upstream in Bayou Cocodrie proper and will not affect water levels in the bayou downstream of the project. The project may provide temporary aquatic habitat during periods of low water/drought if any major drainage project is approved and implemented in Concordia Parish.
L. Water Quality/Quantity – The project will have no negative impact on the water quality or quantity up or downstream of the proposed project. The management plan of proposed reservoir will include maintaining good water quality.

6. The signed original of the enclosed legal agreement: see attached

7. Statement of compliance history: Applicant has been in compliance of and has not been cited for violation of the Scenic Rivers Act.

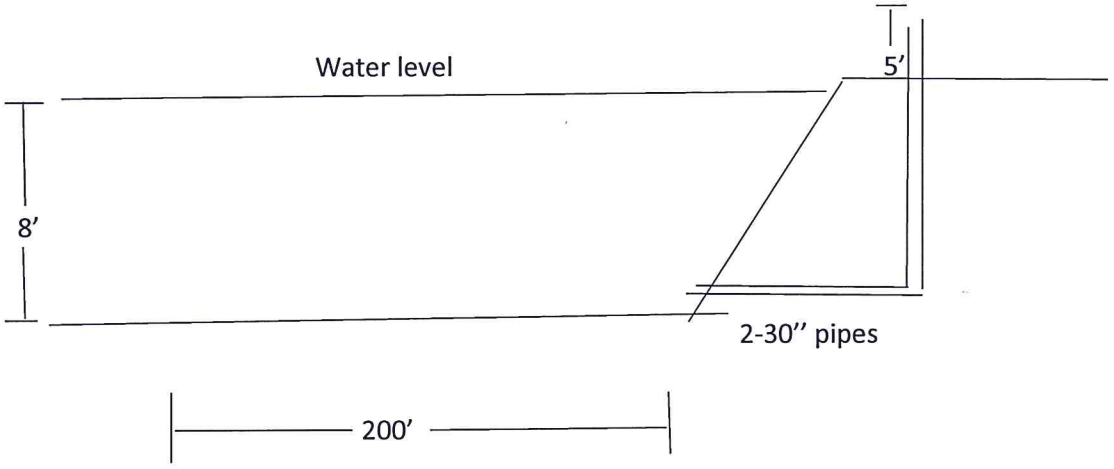
8. Steps taken to minimize impact: Great care and effort was employed during the pump selection process to identify a pump design and installation process that would have minimal impact on the environment. The created reservoir will enhance ecosystem providing shallow water habitat for fish and wildlife. The project will have no negative impact on the water quality up or downstream of the proposed project.

9. Listing of alternatives for proposed project:

    A. Continue the use of groundwater for irrigation of this land.

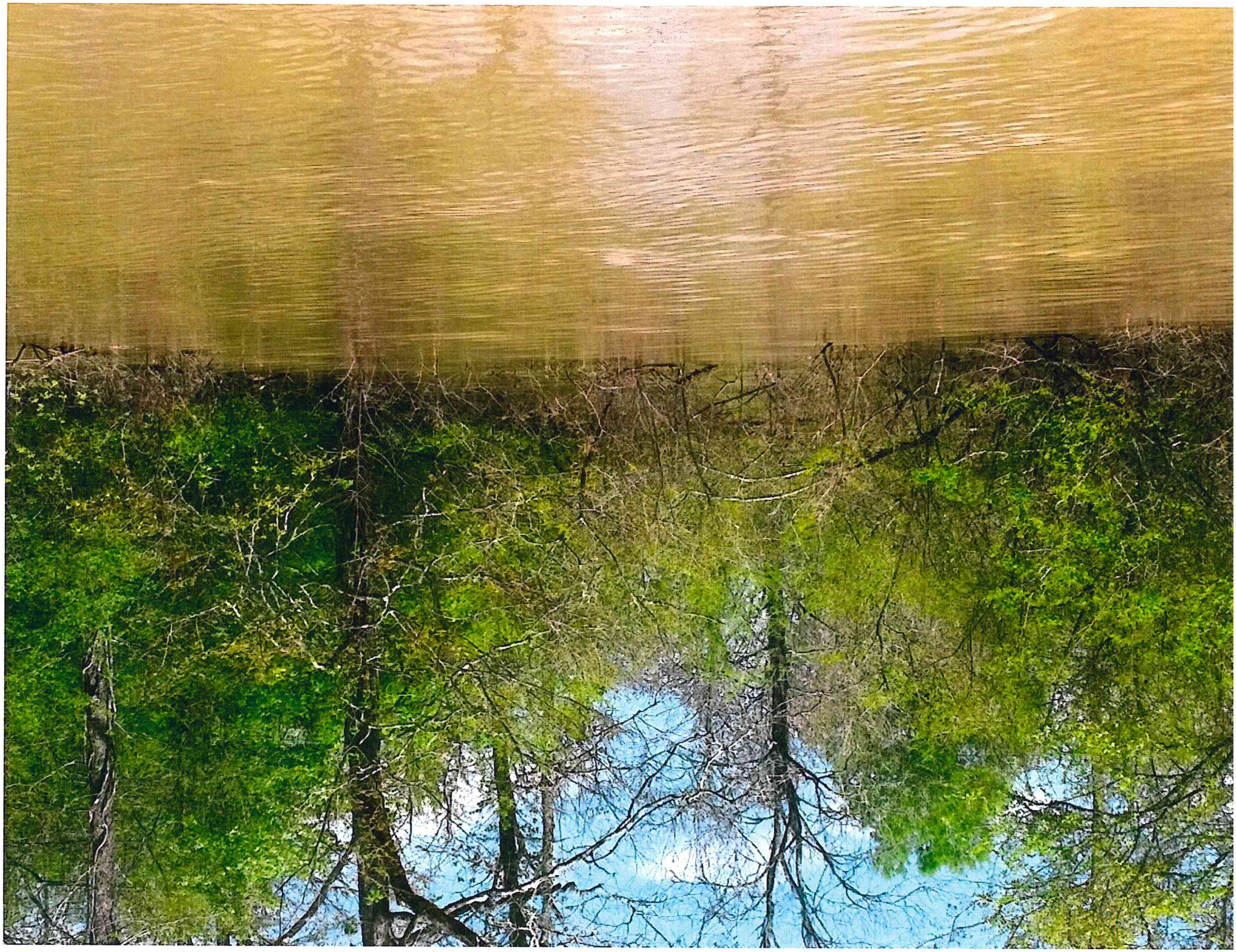
Angelina Land, LLC

Irrigation Project Drawing




© 2014 Google
1999
Imagery Date: 11/16/2012
31°25'31.40" N 91°38'04.08" W elev 48 ft

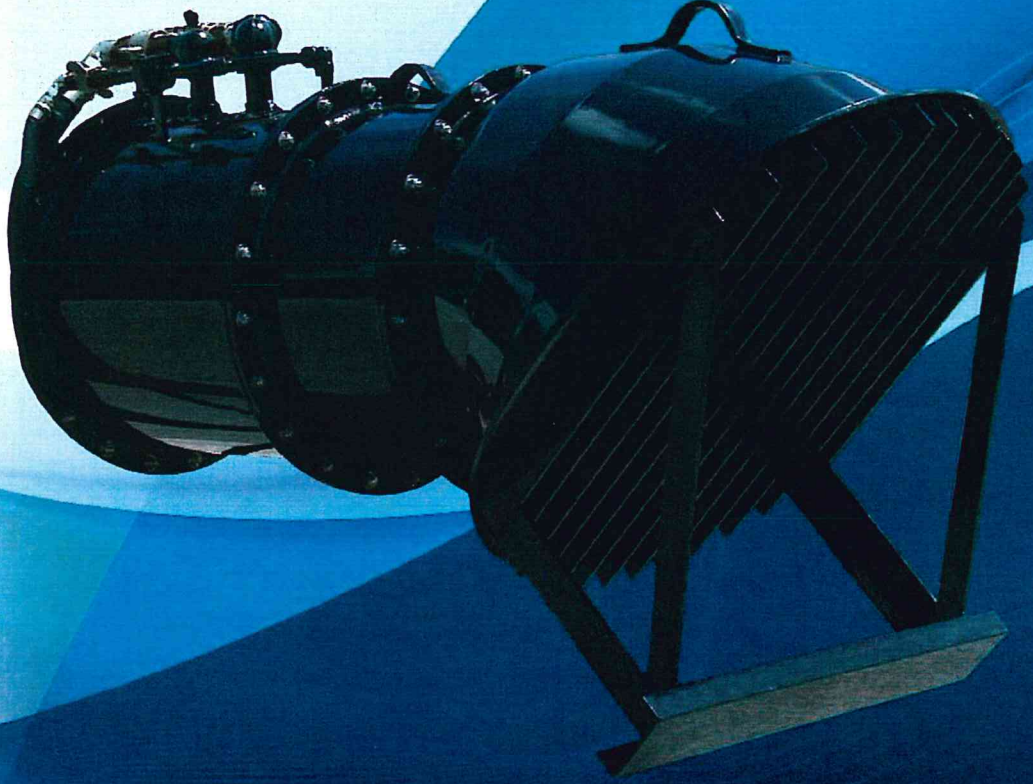

© 2014 Google
1999
Imagery Date: 11/16/2012 31°25'24.88" N 91°38'06.20" W elev 41 ft



MWI PUMPS

Hydraulically Driven Pumps

Hydraflo™



Moving Water Worldwide - Reliably and Efficiently

Hydraflo Pumps from MWI

The Hydraflo is a patented, submersible pump that uses the power of hydraulics to drive the impeller via flexible hoses. This replaces a fixed motor, a long, rigid shaft and the supporting structure common to most pumps that can move very large quantities of water. The unique design allows the pump to be set up in hours - not months - usually eliminates most of the civil works necessary for installation - saving a lot of money and time, allows the pump to be portable and provides variable speed control.

Advantages

Versatility

Hydraflo pumps can be installed at any angle - vertical, horizontal or any angle in between, by simply changing the intake bell.

Fast Installation

Hydraflo pumps can be installed within a fraction of the time of conventional lineshaft pumps. A typical installation can be done in house, because they do not require any critical alignment or the extensive civil works required by other high capacity pumps.

Designed for Longer Life

Hydraflos are designed for a very long life. All components are picked for ruggedness and durability. Many Hydraflos over 25 years old are still in daily use.

Less Submergence Required

Because the standard design of MWI Hydraflo pumps have large intake passages and low speeds, they can be installed and operated continuously at minimal submergence.

Requires Less Maintenance and Costs Less to Operate

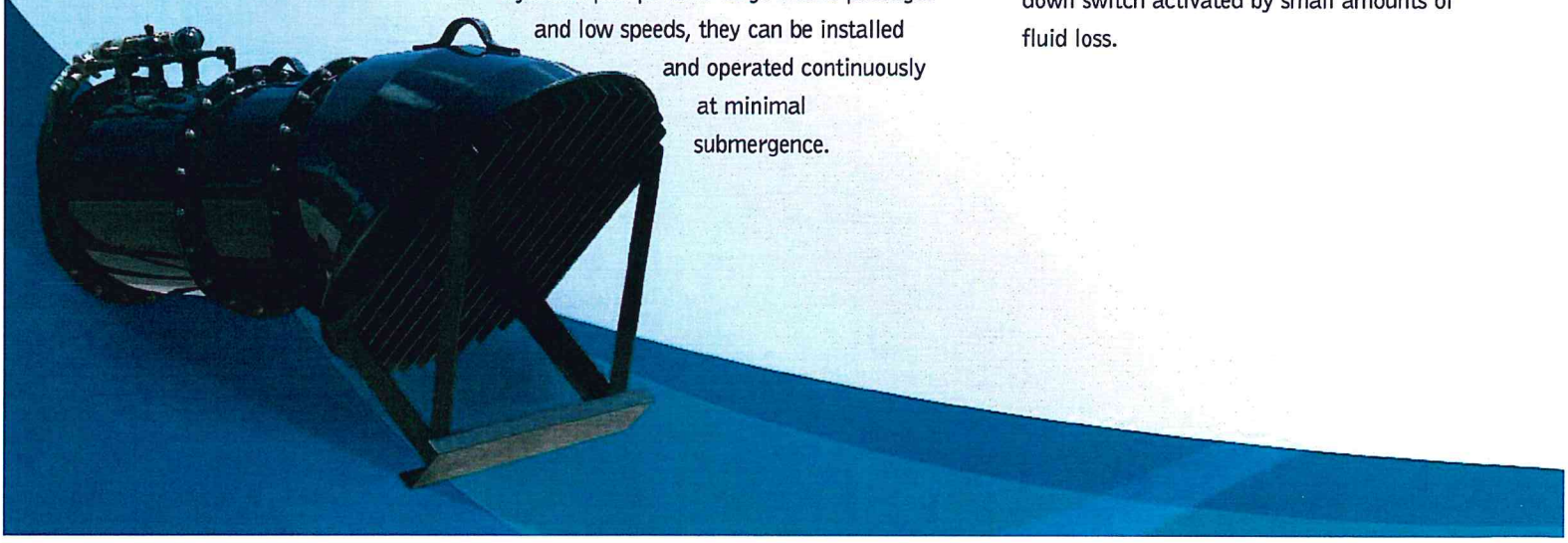
The Hydraflo is a simple, straightforward design that requires very little maintenance. When used in portable mode, pumps more water for less money and has a smaller footprint than the many centrfigual pumps that would be required to take its place. Hydraflo pumps are designed to run dry without damage to their components.

Variable Speed Pumping

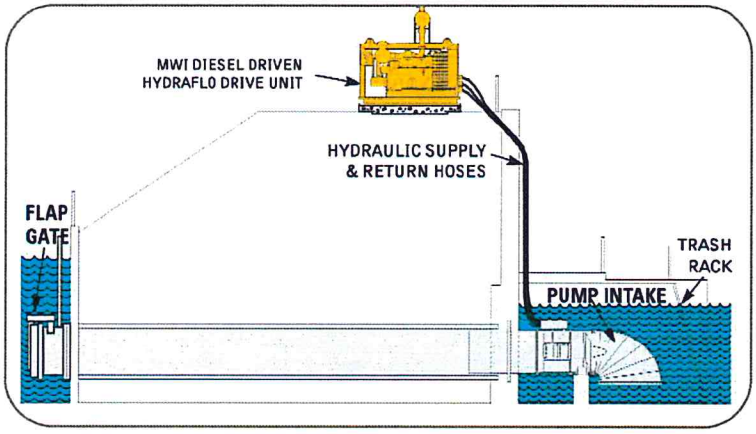
Pump speed can be varied manually by regulating engine speed. An automatic variable speed option is also available.

Environmentally Friendly

We offer several hydraulic fluid options which are readily biodegradable and meet the EPA toxicity limits. Hydraflo hydraulic tanks are small and have an engine shut down switch activated by small amounts of fluid loss.

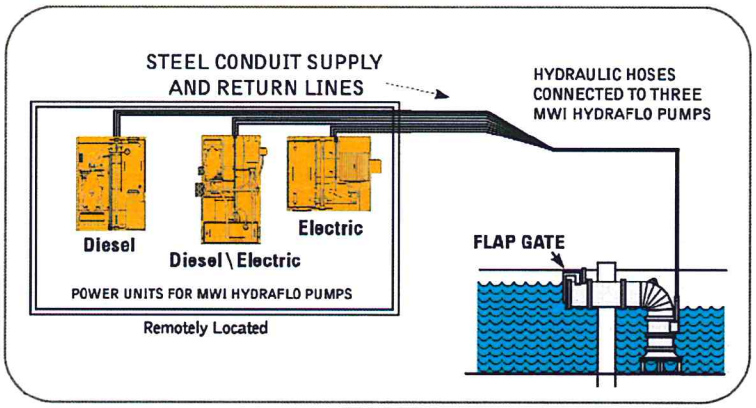


Installations • • •



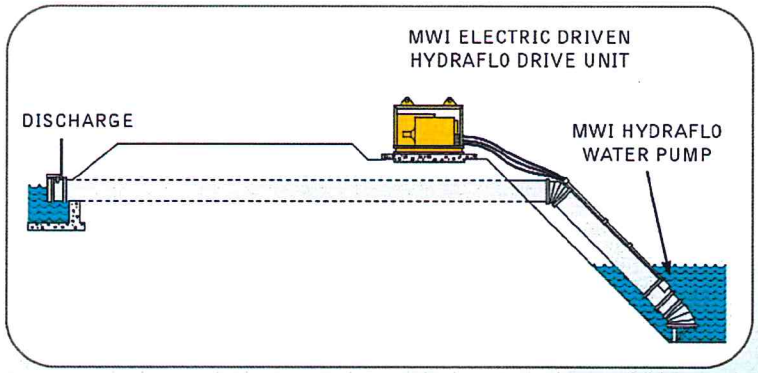
HORIZONTAL INSTALLATION

- Low profile
- Retro-fit existing pipe



VERTICAL INSTALLATION

- Dual power for emergencies
- Remote drive unit

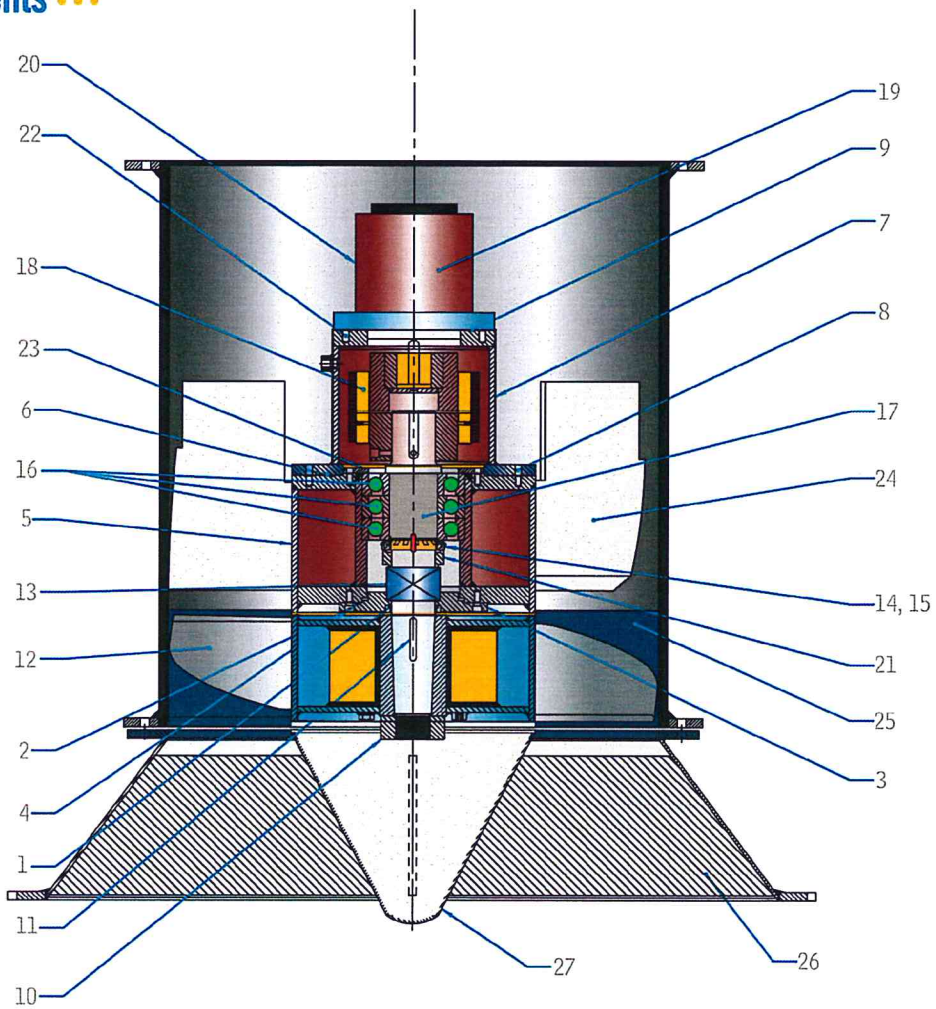


ANGLED INSTALLATION

- Low civil works
- Installable at any angle

MWI PUMPS

Internal Components



1 Lip Seal (Synthetic Rubber & Stainless Steel Garter Spring)

2 Bolts:Fasten End Pl-Bearing Box(Grade 5)

3 End Plate (ASTM A588, Corten Steel)

4 O-Ring: End Plate / Bearing Box

5 Bearing Box (ASTM A588, Corten Steel)

6 O-Ring: Bearing Box / Motor Mount

7 Motor Mount (ASTM A242 Corten Steel)

8 Bolts:Motor Mount-Bear'g Box (Grade 5)

9 O-Ring: Motor Mount / Hydraulic Motor

10 Propeller Nut (AISI 1026 Steel)

11 Propeller Key (AISI 1018 Steel)

12 Propeller(S/ S Blades,A588 Corten Steel)

13 Mechanical Seal Assembly (Ceramic & Stainless Steel Spring)

14 Bearing Lock-Nut (ANSI C1015 Steel)

15 Bearing Lock-Washer (ANSI C1015 Steel)

16 Bearings

17 Hydraflo Shaft (304 Stainless Steel)

18 Shaft Coupling Assembly (Steel)

19 Hydraulic Motor (Steel Casting)

20 Mounting Flanges/ Adapters

21 Bronze Spacer (Bronze 660)

22 Bolts -Hydraulic Motor To Mount (Grade 5)

23 Bearing Retainer (ASTM A242, Corten Steel)

24 Distributor Blades (ASTM A242, Corten Steel)

25 Wear Ring/Liner (304 Stainless Steel)

26 Guide Blades

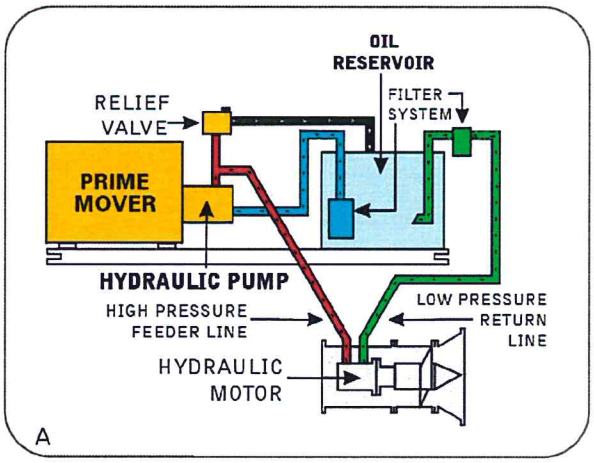
27 Guide Hub

Due to our continual improvement of our products, we reserve the right to change designs and specifications.

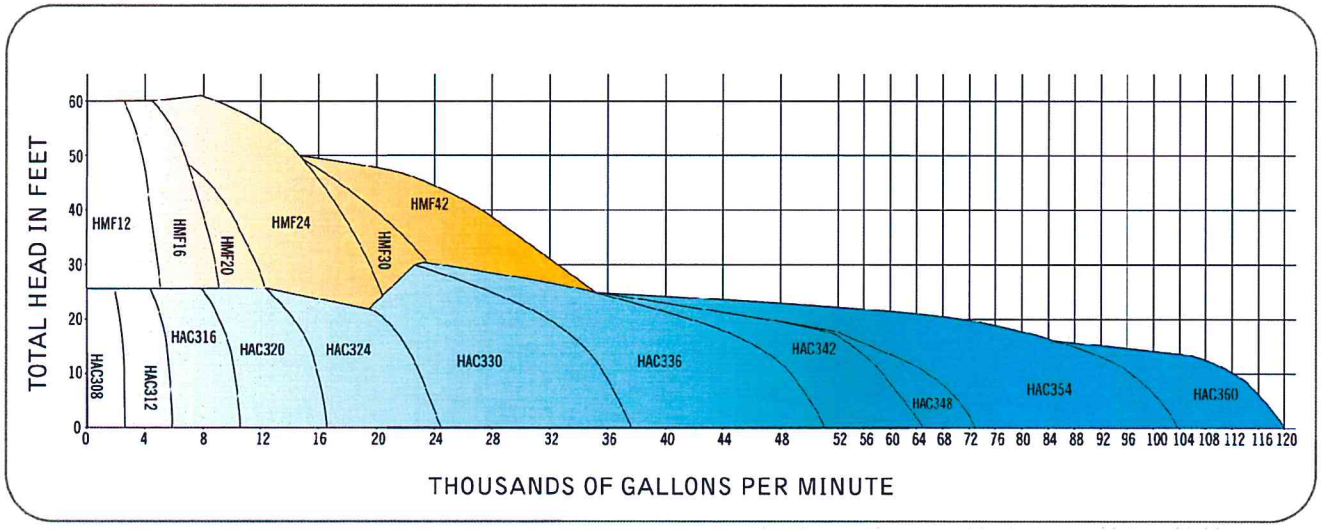
Method of Operation

Schematic A shows how the hydraulic system works. Note that the prime mover can be a diesel engine, electric motor or a combination of both. It drives a hydraulic pump which in turn supplies oil to the hydraulic motor in the water pump. This spins the hydraulic motor which is directly connected to the propeller. The hydraulic oil is then returned to the oil reservoir through the return filter. Then, the hydraulic oil returns through a strainer and back to the hydraulic pump, completing the circuit.

A relief valve from the high pressure side to the oil reservoir, serves to by-pass the power transmission fluid and divert flow in the event that an object gets lodged in the propeller. This is a very important safety feature available only with Hydraflo systems which protects all components from shock loads. Where variable flows are needed (such as in sewage effluent or "piped in" stormwater pumping), the propeller speeds can be infinitely adjusted automatically through the hydraulic power transmission system to match up with any combination of water flows and head conditions.



Performance curves for each bowl size are available upon request.



MWI's international headquarters and extensive manufacturing capabilities are located in Deerfield Beach, Florida, very close to the original business.The manufacturing facilities are spread over 4 city blocks and total nearly 300,000 ft^2, to include a 10,000 ft^2 test lab. The company has a facility in Egypt and representatives throughout the United States, Latin America, Middle East, Africa and Asia.

The Hydraflo™ is protected by one or more of the following patents and patents pending:
US Patents: #4,138,202, #6,447,260, #6,520,750, #4,188,788, #6,113,356, #4,350,476, #4,138,202, #3,907,463, #4,070,135, #4,797,067, #3,270,677

MWI Moving Water Industries
CORPORATION
ESTABLISHED 1926

Moving Water Worldwide - Reliably and Efficiently

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Phone: (954) 426-1500 Fax: (954) 426-1582 E-mail: info@mwicorp.com www.mwicorp.com